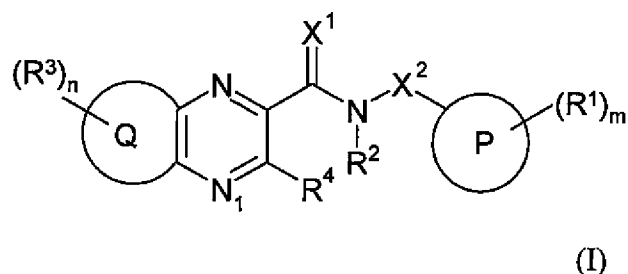


AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A compound having the formula I



wherein:

X¹ is O or S;

X² is a bond or C₁₋₃alkylene;

P is C₃₋₇cycloalkyl or C₄₋₇cycloalkenyl;

R¹ is hydrogen, C₁₋₆alkyl, cyano, halogen and C₁₋₆alkylhalo, and one or more R¹ may be connected to each other or to one of the atoms that constitutes P to form a bridge or spirocyclo;

R² is hydrogen, C₁₋₃alkyl, fluoromethyl, difluoromethyl, trifluoromethyl, methoxy, fluoromethoxy, difluoromethoxy, trifluoromethoxy, C₀₋₃alkylamino,

~~C₁₋₃alkoxy, hydroxy~~ C₀₋₃alkylhydroxy or C₀₋₃alkyldimethylamino;

R⁴ is hydrogen, C₁₋₃alkyl, fluoromethyl, difluoromethyl, trifluoromethyl, methoxy, fluoromethoxy, difluoromethoxy, trifluoromethoxy, C₁₋₃alkylamino,

~~C₁₋₃alkoxy, hydroxy~~ C₀₋₃alkylhydroxy or C₀₋₃alkyldimethylamino;

Q is a saturated or partially unsaturated ring containing 4, 5, 6 or 7 atoms independently selected from C, S, O and N, and said ring may further contain groups independently selected from SO, SO₂, CO, cyano and CS;

R³ is hydrogen, hydroxy, halogen, nitro, cyano, OC₁₋₃alkylhalo, C₁₋₃alkylhalo, C₁₋₃alkyl,

~~C₁₋₃alkoxyC₀₋₃alkyl, C₀₋₃alkylOhydroxyC₂₋₄alkyl, C₀₋₃alkylOC₂₋₄hydroxyalkyl,~~

~~hydroxyC₁₋₃alkyl, C₁₋₃hydroxyalkyl, amino, C₁₋₃alkylaminoC₀₋₃alkyl, (C₁₋₃alkyl)₂aminoC₀₋₃alkyl, amide,~~

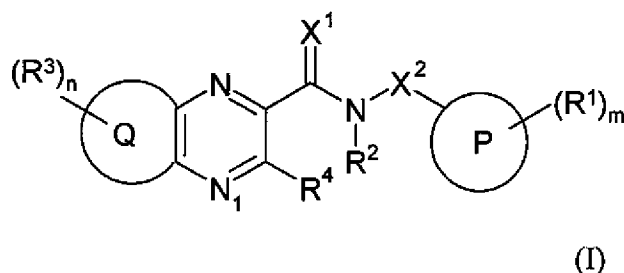
C₁₋₃alkylamideC₀₋₃alkyl or (C₁₋₃alkyl)₂amideC₀₋₃alkyl;

n is 0, 1, 2, 3 or 4; and

m is 0, 1, 2, 3 or 4;

or N₁-oxides, or salts thereof.

2. (Currently Amended) A compound having the formula I



wherein:

X¹ is O or S;

X² is a bond or C₁₋₃alkylene;

P is C₃₋₇cycloalkyl or C₄₋₇cycloalkenyl;

R¹ is hydrogen, C₁₋₆alkyl, cyano, halogen and C₁₋₆alkylhalo, and one or more R¹ may be connected to each other or to one of the atoms that constitutes P to form a bridge or spirocyclo;

R² is hydrogen, C₁₋₃alkyl, fluoromethyl, difluoromethyl, trifluoromethyl, methoxy, fluoromethoxy, difluoromethoxy or trifluoromethoxy;

R⁴ is hydrogen;

Q is a saturated or partially saturated unsaturated ring containing 4, 5, 6 or 7 atoms independently selected from C, S, O and N, and said ring may further contain groups independently selected from SO, SO₂, CO, cyano and CS;

R³ is hydrogen, hydroxy, halogen, nitro, OC₁₋₃alkylhalo, C₁₋₃alkylhalo, C₁₋₃alkyl, C₁₋₃alkoxyC₀₋₃alkyl, ~~hydroxyC₁₋₃alkyl~~, C₁₋₃hydroxyalkyl cyano, amino or amide;

n is 0, 1, 2, 3 or 4; and

m is 0, 1, 2, 3 or 4;

or N₁-oxides, or salts thereof.

3. (Original) The compound according to any one of claims 1 or 2, wherein P is C₃₋₇cycloalkyl substituted with one or more R¹, wherein R¹ is hydrogen, C₁₋₆alkyl, cyano, halogen or C₁₋₆alkylhalo, and one or more R¹ may be connected to each other or to one of the atoms that constitutes P to form a bridge or spirocyclo.
4. (Original) The compound according to claim 3, wherein P is C₅₋₇cycloalkyl substituted with one or more R¹, wherein R¹ is methyl.
5. (Previously Presented) The compound according to any one of claims 1 or 2, wherein X¹ is oxygen.
6. (Previously Presented) The compound according to any one of claims 1 or 2, wherein X² is a bond.
7. (Previously Presented) The compound according to any one of claims 1 or 2, wherein R² is hydrogen.
8. (Previously Presented) The compound according to any one of claims 1 or 2, wherein R⁴ is hydrogen or methyl.
9. (Previously Presented) The compound according to any one of claims 1 or 2, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.
10. (Previously Presented) The compound according to any one of claims 1 or 2, wherein R³ is hydrogen, hydroxy, halogen, cyano, C₁₋₃alkyl or C₁₋₃alkoxyC₀₋₃alkyl.

11. (Previously Presented) The compound according to any one of claims 1 or 2 having a trans-relationship between R¹ and X² on ring P, wherein P is cyclohexane, and R¹ and X² are attached to P at positions 4 and 1, respectively.

12. (Previously Presented) The compounds

N-(trans-4-methylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
N-(4,4-dimethylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
or salts thereof.

13. (Previously Presented) The compounds

N-(4,4-dimethylcyclohexyl)-3-methyl-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
8-methyl-N-(trans-4-methylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
7-hydroxy-5,7-dimethyl-N-(trans-4-methylcyclohexyl)-6,7-dihydro-5H-cyclopenta[b]pyrazine-2-carboxamide,
N-(trans-4-methylcyclohexyl)-6,7,8,9-tetrahydro-5H-cyclohepta[b]pyrazine-2-carboxamide,
7-methyl-N-(trans-4-methylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
6-methyl-N-(trans-4-methylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
N-(trans-4-methylcyclohexyl)-6,7-dihydro-5H-cyclopenta[b]pyrazine-2-carboxamide,
N-(trans-4-methylcyclohexyl)-7,8-dihydro-5H-pyrano[3,4-b]pyrazine-2-carboxamide,
N-(trans-4-methylcyclohexyl)-7,8-dihydro-5H-pyrano[3,4-b]pyrazine-3-carboxamide,
7-hydroxy-N-(trans-4-methylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
6-hydroxy-N-(trans-4-methylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide,
N-(4,4-dimethylcyclohexyl)-5,6,7,8-tetrahydroquinoxaline-2-carboxamide 4-oxide and
6,7-dimethyl-N-(4-methylcyclohexyl)-6,7-dihydro-5H-cyclopenta[b]pyrazine-2-carboxamide,
or salts thereof.

14. (Withdrawn and Previously Presented) A pharmaceutical composition comprising as active ingredient a therapeutically effective amount of the compound according to any one of claims 1

or 2, in association with one or more pharmaceutically acceptable diluent, excipients and/or inert carrier.

15. (Withdrawn) The pharmaceutical composition according to claim 14, for use in the treatment of Group I mGluR mediated disorders.

16.-18. (Cancelled)

19. (Withdrawn and Previously Presented) A method of treatment of Group I mGluR mediated disorders, comprising administering to a mammal, including man in need of such treatment, a therapeutically effective amount of the compound according to any one of claims 1 or 2.

20. (Withdrawn) The method according to claim 19, for use in treatment of neurological disorders.

21. (Withdrawn) The method according to claim 19, for use in treatment of psychiatric disorders.

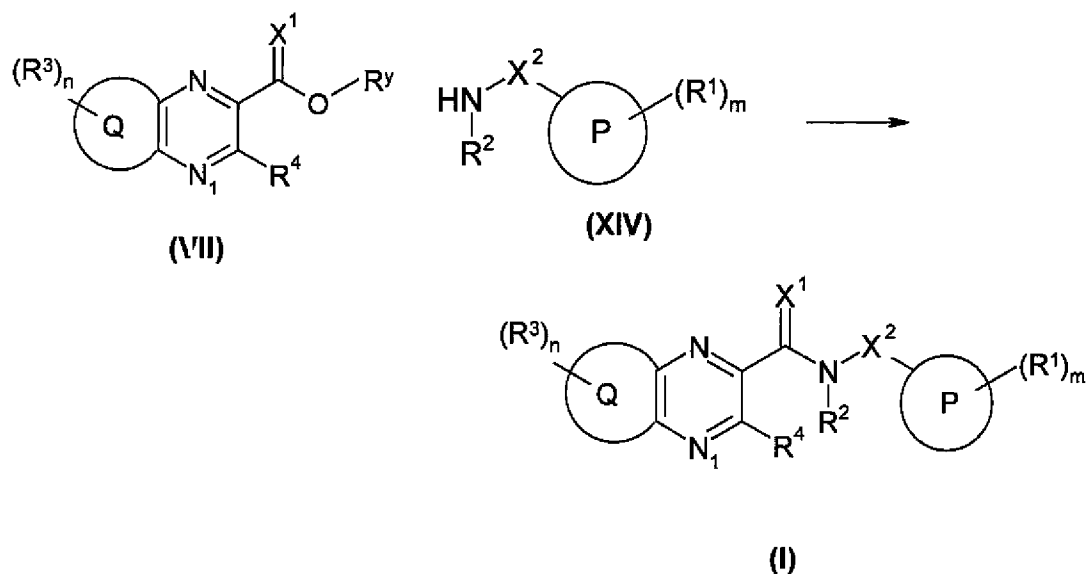
22. (Withdrawn) The method according to claim 19, for use in treatment of chronic and acute pain disorders.

23. (Withdrawn) The method according to claim 19, for use in treatment of gastrointestinal disorders.

24. (Withdrawn) A method for inhibiting activation of Group I mGluR receptors, comprising treating a cell containing said receptor with an effective amount of the compound according to claim 1 or 2.

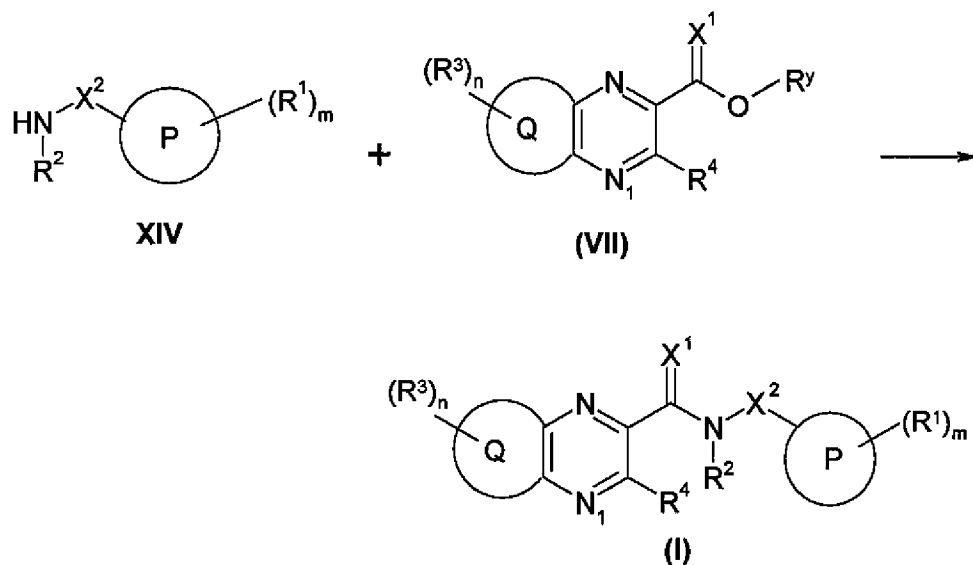
25. (Withdrawn) Processes for the preparation of the compound according to claim 1 or 2, wherein P, Q, X¹, X², R¹, R², R³, R⁴, m and n are, unless otherwise specified, defined as in formula I, comprising of:

A



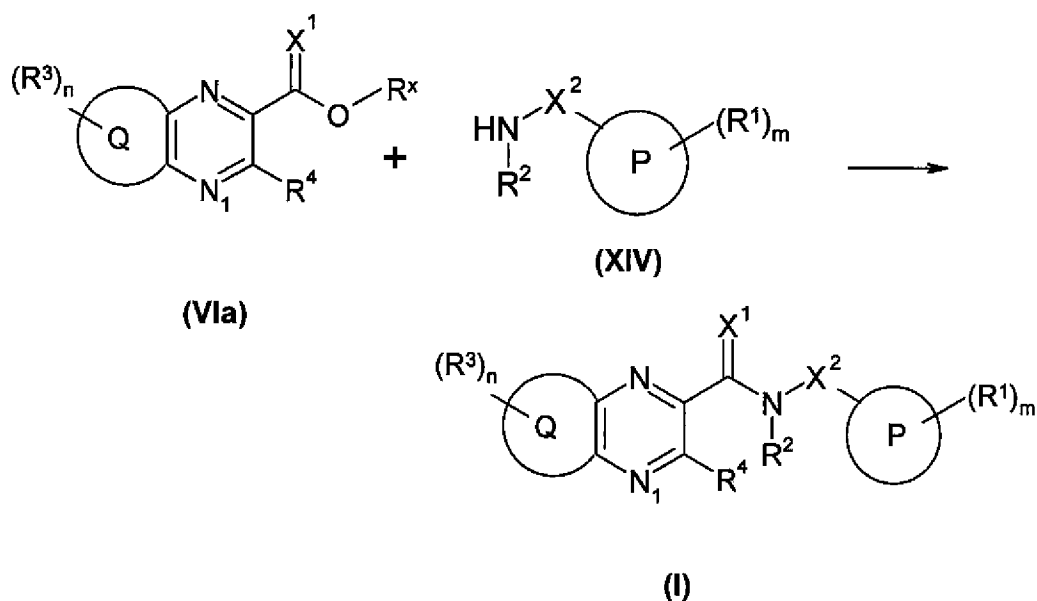
reacting a compound of formula VII, wherein R^y is H, with an activating agent followed by the treatment of the resulting acid halide, or otherwise to nucleophiles activated acid derivative, with an amine of formula XIV, to obtain the compound of formula I, alternatively,

B



reacting an amine of formula XIV with the compound of formula VII, wherein R^y is H, to obtain the compound of formula I, or

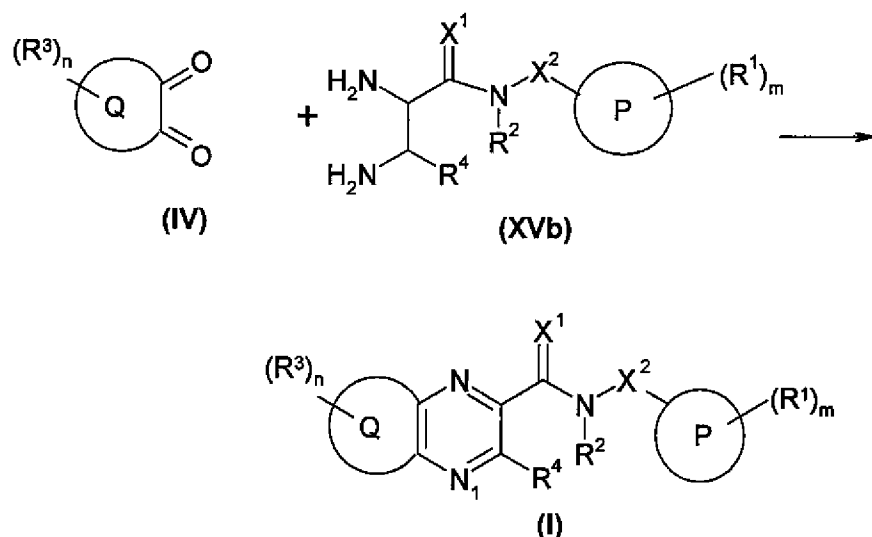
C



reacting a compound of formula VIa or the N_1 -oxide thereof, wherein R^x is C_{1-6} alkyl, with the appropriate amine such as the compound of formula XIV, to obtain the compound of formula I,

or,

D



direct condensation of intermediates of formula IV and XVb, to obtain the compound of formula I.

26. (Withdrawn) Compounds

5,6,7,8-tetrahydro-quinoxaline-2-carboxylic acid methyl ester and
5,6,7,8-tetrahydro-quinoxaline-2-carboxylic acid.

27. (Withdrawn) Compounds

3-methyl-5,6,7,8-tetrahydro-quinoxaline-2-carboxylic acid ethyl ester,
3-methyl-5,6,7,8-tetrahydro-quinoxaline-2-carboxylic acid,
2,3-diamino-N-(4-methyl-cyclohexyl)-propionamide,
4-(tert-butyl-diphenyl-silanyloxy)-cyclohexane-1,2-dione,
6,7-dimethyl-6,7-dihydro-5H-cyclopentapyrazine-2-carboxylic acid methyl ester,
5,6,7,8-tetrahydro-quinoxaline-2-carboxylic acid methyl ester and
5,6,7,8-tetrahydro-quinoxaline-2-carboxylic acid.

28. (Withdrawn) The compounds according to claims 26 and 27, for use as an intermediate in the preparation of the compound according to claim 1.
29. (Previously Presented) The compound according to claim 3, wherein X^1 is oxygen.
30. (Previously Presented) The compound according to claim 4, wherein X^1 is oxygen.
31. (Previously Presented) The compound according to claim 3, wherein X^2 is a bond.
32. (Previously Presented) The compound according to claim 4, wherein X^2 is a bond.
33. (Previously Presented) The compound according to claim 5, wherein X^2 is a bond.
34. (Previously Presented) The compound according to claim 3, wherein R^2 is hydrogen.
35. (Previously Presented) The compound according to claim 4, wherein R^2 is hydrogen.
36. (Previously Presented) The compound according to claim 5, wherein R^2 is hydrogen.
37. (Previously Presented) The compound according to claim 6, wherein R^2 is hydrogen.
38. (Previously Presented) The compound according to claim 3, wherein R^4 is hydrogen or methyl.
39. (Previously Presented) The compound according to claim 4, wherein R^4 is hydrogen or methyl.
40. (Previously Presented) The compound according to claim 5, wherein R^4 is hydrogen or methyl.

41. (Previously Presented) The compound according to claim 6, wherein R^4 is hydrogen or methyl.

42. (Previously Presented) The compound according to claim 7, wherein R^4 is hydrogen or methyl.

43. (Previously Presented) The compound according to claim 3, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.

44. (Previously Presented) The compound according to claim 4, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.

45. (Previously Presented) The compound according to claim 5, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.

46. (Previously Presented) The compound according to claim 6, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.

47. (Previously Presented) The compound according to claim 7, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.

48. (Previously Presented) The compound according to claim 8, wherein Q is a saturated or partially unsaturated ring containing 5, 6 or 7 atoms independently selected from C, O and N.

49. (Previously Presented) The compound according to claim 3, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

50. (Previously Presented) The compound according to claim 4, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

51. (Previously Presented) The compound according to claim 5, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

52. (Previously Presented) The compound according to claim 6, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

53. (Previously Presented) The compound according to claim 7, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

54. (Previously Presented) The compound according to claim 8, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

55. (Previously Presented) The compound according to claim 9, wherein R^3 is hydrogen, hydroxy, halogen, cyano, C_{1-3} alkyl or C_{1-3} alkoxy C_{0-3} alkyl.

56. (Previously Presented) The compound according to claim 3 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

57. (Previously Presented) The compound according to claim 4 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

58. (Previously Presented) The compound according to claim 5 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

59. (Previously Presented) The compound according to claim 6 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

60. (Previously Presented) The compound according to claim 7 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

61. (Previously Presented) The compound according to claim 8 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

62. (Previously Presented) The compound according to claim 9 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

63. (Previously Presented) The compound according to claim 10 having a trans-relationship between R^1 and X^2 on ring P, wherein P is cyclohexane, and R^1 and X^2 are attached to P at positions 4 and 1, respectively.

64. (Previously Presented) The compound according to Claim 1, wherein R^4 is hydrogen, C_{1-3} alkyl, fluoromethyl, difluoromethyl, trifluoromethyl, methoxy, fluoromethoxy, difluoromethoxy, trifluoromethoxy, C_{1-3} alkylamino, C_{1-3} alkoxy, hydroxy.

65. (Previously Presented) The compound according to any one of Claims 1 or 2, wherein Q is cyclohexyl, cyclohexenyl, cyclopentyl, cyclopentenyl, imidazolidinyl, imidazoliny,

morpholinyl, piperazinyl, piperidyl, piperidonyl, pyrazolidinyl, pyrazolinyl, pyrrolidinyl, pyrrolinyl, tetrahydropyranyl or thiomorpholinyl.